ELECTRA

# air conditioning and heating collection 2012

Airwell Group

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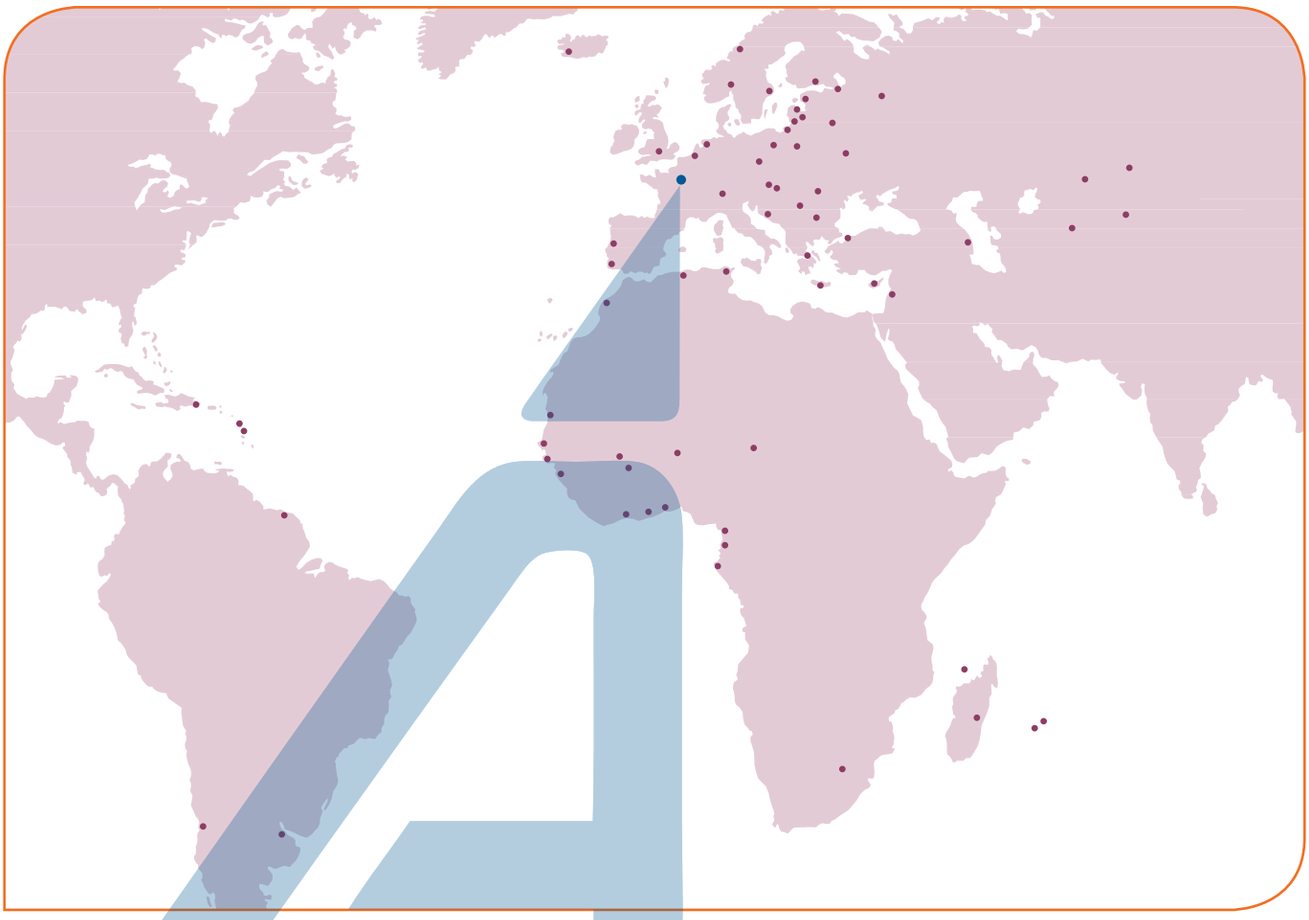
ELEC_EXP_GB.indd 1 24/01/12 18:36

# Contact Us

## AN INTERNATIONAL SALES NETWORK

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ELEC_EXP_GB.indd 2 24/01/12 18:36

# Table of contents


| | | PAGE |
|---|---|---|
| **HISTORY** | | **4** |
| **R&D** | | **6** |
| **SERVICES** | | **8** |
| **ICON GUIDE** | | **10** |
| **MULTISPLITS DCI RANGE R410A** | | **12** |
| **VBZ** | Residential line | **14** |
| **FIXED SPEED RANGE R410A** | | **18** |
| **JED** | High wall mono | **20** |
| **JGF** | High wall | **22** |
| **TAF** | Floor ceiling | **24** |
| **RSF** | Floor standing | **26** |
| **KAF** | Cassette 900x900 | **30** |
| **OAF** | Ducted | **32** |
| **OAF** | Ducted | **34** |




ELEC_EXP_GB.indd 3 24/01/12 18:36

# One Group, one history, many ambitions

**2012 will mark the 65th anniversary of our Group's activity and international expansion.**

Our Group, which commercializes Electra brand, has a long history, marked by innovations at every stage of its development. In 1947 Paul Wallet founded the company L'Air Conditionné Entreprise (ACE) near Paris and, with the brand Airwell, quickly became the leading manufacturer of direct-expansion air conditioners. The foundations had been laid for what would become one of the largest groups worldwide to offer solutions for both the residential sector and to businesses, industry and the service sector.

## INDUSTRIAL BEGINNINGS

Since the 1950s, ACE has been mass-producing air conditioning systems for private and commercial use. At that time, the company designed the first window unit – one of its flagship products – intended for the European and African markets.

## A DECADE OF INNOVATION

Moving forward, in 1970 our Group split its "window" unit into two parts to form a "split" system unit, becoming the first European manufacturer to produce this product. Another string was added to its bow a few years later, in 1979, with the air-water heat pump. In the wake of the two oil crises, this system could be connected to existing fuel oil boilers in homes. And in 1982 our Group came up with the first range of wall split systems, incorporating a remote control, a high-tech tangential flow turbine to reduce noise levels and rotary compressors.



ELEC_EXP_GB.indd 4 24/01/12 18:36

## ONGOING EXPANSION

Always at the cutting edge of technology, in 1988 our Group became the first western company to develop the Inverter system, which varies the speed of the compressor, thus enabling the temperature to be adjusted and energy savings to be made. In the 1990s, the company experienced exceptional growth, resulting in the creation of its “historic” factory in Tillières-sur-Avre, Normandy, and the acquisition of distributors in Spain, Italy, Germany and France.

## AN INTERNATIONAL DIMENSION

In 1997, our Group joined the Israeli group, Elco Holdings, which is listed on the Tel-Aviv stock exchange and is involved in many sectors: household appliances, air conditioning, retail sale of electronics and real estate. Other acquisitions, between 1998 and 2001, most notably of factories in France, Italy and China, strengthened the Group’s international position. At the same time, it expanded its distribution network to Argentina and Turkey. The first decade of the new millennium saw acquisitions in Germany (Polenz Klimatechnik) and the USA (Fedders). Finally, to strengthen its position on the Asian markets, our Group will open a new factory in Taicang (China) in June 2012.

## WHAT DOES THE FUTURE HOLD?

Many challenges lie ahead. The first is reliant on increasingly efficient, high quality products and services, which means listening to customers and ensuring a local presence. R&D is also one of the main priorities, with a desire to offer major innovations every year for each business line.



ELEC_EXP_GB.indd 5 24/01/12 18:36

# R&D: innovation and performance

**To encourage innovation, our Group has stepped up its R&D activity in the development of technologies designed for maximum comfort, air purification and considerable energy savings.**

Innovation is vital to our Group's expansion. Having led the field since the 1950s in mass-production of the first window unit, in 1970 it developed a split system unit, becoming the the first European manufacturer of this product, to which new functions have been added over the years: remote control, high-tech tangential flow turbine to reduce noise levels, rotary compressors, etc. And let's not forget the air-water heat pump that the Group developed in 1979.

## AN EXTENSIVE, DIVERSE RANGE OF SOLUTIONS

Today, with a Research & Development (R&D) department with 150 engineers – in France, Italy, China, Hong Kong and Israel – and with a dedicated budget up 40% in 2011, our Group places a great deal of emphasis on innovation! The result? With more than 600 products designed for all types of installation, we are the only company to offer such a vast range for the residential sector and for business, industry and the service sector. A whole host of full solutions to meet every need:

- commercial: applications that lend themselves to the specific nature of each building;
- residential: heating, cooling, dehumidification, air purification;
- industrial: water or air condensation units, air treatment units, roof units.



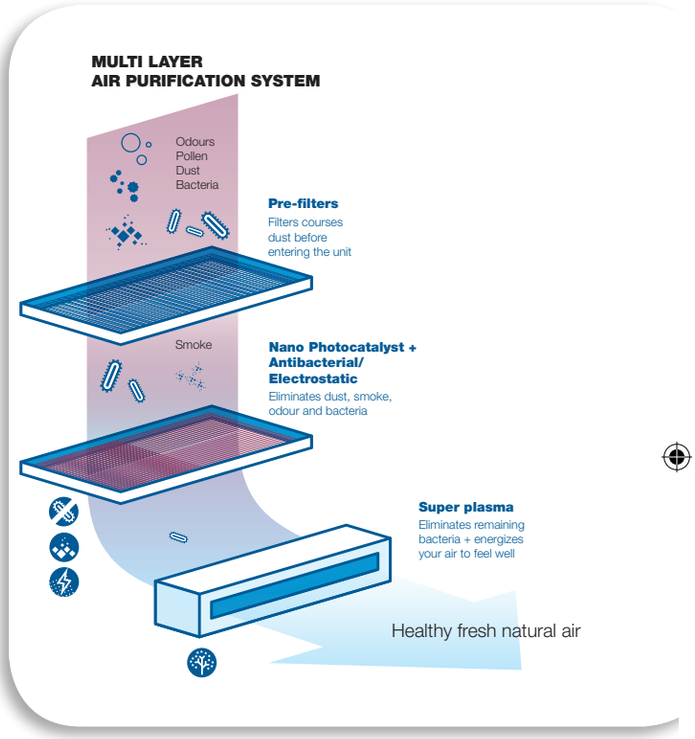
ELEC_EXP_GB.indd 6 24/01/12 18:36

## THE EFFICIENCY OF THE DC INVERTER

This approach results in constant product optimisation thanks to the implementation of cutting-edge technologies. Our Group was the first in Europe to introduce the DC Inverter in 1988. This system enables compressor speed to be adapted to the desired room temperature through continuous operation that allows the power of the compressor to be adjusted. In this way, as soon as the set temperature is reached the speed is reduced. As well as resulting in energy savings in the region of 30%, this makes the system more versatile and quieter.

## THE STERIONIZER™ FOR INDOOR AIR TREATMENT

Another patented technology is changing the future of air conditioning and illustrates our Group's desire for innovation. This technology is bipolar ionisation, also known as Sterionizer™. This system generates negative and positive oxygen ions – like those found in nature – causing an electrical chemical reaction that eradicates viruses, bacteria, fungi, mildew, etc. It purifies the air inside the home, neutralises odours and significantly reduces allergies to dust mites. There are no harmful by-products such chemicals and/or ultraviolet radiation. Air as healthy as in the heart of the forest! A whole host of health benefits that have been confirmed by internationally renowned research institutes. The Sterionizer also has the advantage of being compatible with air conditioners, fans, humidifiers and dehumidifiers as well as cooling systems.




## CUTTING-EDGE, ENVIRONMENTALLY FRIENDLY TECHNOLOGY

Sustainable development and respect for the environment are priorities that are incorporated into the manufacturing process across our Group range. Pre-empting legislation and energy regulations, the Group offers products that comply fully with European and international standards. Furthermore, the use of advanced technologies helps to reduce the products' energy consumption and noise levels.



ELEC_EXP_GB.indd 7 24/01/12 18:36

# Efficient services for quality follow-up

**To overcome installation and after-sales problems, our Group has set up high quality services.**

Keeping our customers happy and meeting all of their expectations about our products is our TOP priority. With this in mind, our Group is committed to continuously improving its service to professional customers, a policy broken down into three main areas: training, spare parts and technical support.

## TRAINING TOWARDS EXPERTISE

For our Group, well-trained professional clients mean successful installations! They are given regular training in order to furnish them with the technical expertise they need to the select the product most suited to the needs of the end user.
For approved Service Centers, training focuses on commissioning as well as maintenance and repair work. Generally speaking, the programmes designed for them are built around the following topics.

| INSTALLATION ENGINEERS | | SERVICE CENTERS |
|---|---|---|
| **Product presentation and selection** | > | Commissioning |
| **Technical description** | > | Servicing/Maintenance |
| **Product installation and use** | > | Repairs |

This training combines theoretical classroom presentations and practical work on teaching benches to recreate “real-life” situations.



ELEC_EXP_GB.indd 8 24/01/12 18:36

## SPARE PARTS: OPTIMUM RESPONSE TIMES

The supply of original our Group spare parts is highly significant for the reliability and sustainability of our installations. With this in mind, we set up a European spare parts centre in Tillières-sur-Avre, in the Eure département, on the site of one of our French factories. With more than 12,000 different products in stock and highly responsive teams, we can deliver parts within 48 hours of order entry and confirmation (subject to availability and specific weight and size constraints). Parts may be available up to ten years after a product has been discontinued (air-water heat pumps and VRF ranges).

**Contact the Spare Parts Department:**

- by telephone or email to your dedicated contact;
- by fax on +33 (0)2 32 32 50 33;
- by post at the following address:
  AIRWELL France SAS, Spare Parts Department,
  Route de Verneuil, 27570 Tillières sur Avre.

## TECHNICAL SUPPORT TO MEET ANY REQUIREMENT

Our Group has a network of more than 150 approved Service Centers throughout France, which receive regular product training. Authorised to commission heat pumps and reversible air conditioners, they can also offer maintenance contracts to end users. A worldwide network of Service Centers is also under development.

In addition, between 8.30 am and 12.30 pm and 2 pm and 5.30 pm Monday to Friday, a technical support hotline is manned by a team of our Group technicians. They can answer questions relating to the installation, commissioning and repair of products sold by our Group. Call them on +33 (0)1 39 44 65 79.

For specific questions requiring more in-depth knowledge, technical consultants can visit the site of an end user to investigate the problem with the installation engineer and the distributor.



ELEC_EXP_GB.indd 9 24/01/12 18:36

STANDARD OPTION

## TECHNOLOGY

**FLEXY MATCH**

■ Outdoor unit can match several type of indoor units.
■ Indoor unit can match single split or multisplit outdoor units.

**A/A CLASS**

High efficiency and energy saving product.

**DC INVERTER**

Compressor with high efficiency DC motor.

**GOLDEN FINS CONDENSER**

Improve heat transfer efficiency and corrosion resistance.

**SINE WAVE COMPRESSOR DRIVE**

Advanced technology of compressor speed control in a wide range in high efficiency and low sound level.

**1 W STANDBY POWER**

Minimize the waste of energy once unit is in a standby mode.

**LOW VOLTAGE STARTUP**

Design to start up the system even once power supply is not stabilized.

**LOW TEMPERATURE STARTUP**

Start up the system even once outside temperature is very low as -15°C.

**R410A FLUID**

## AIR QUALITY/CLEAN

**BI-POLAR**

Generating bi-polar ions that leads to electrochemical reaction that deactivates bacteria, viruses and allergenic particles. Creating and brings a natural air quality to the living environment.

**SUPER PLASMA**

Generating a hydrogen ions and oxygen ions that decomposed the harmful substances such as bacteria, viruses and ducts.

**ACTIVE ELECTROSTATIC FILTER**

Effectively cleans the air from air-born particles down to 0.01µ avoid cigarettes smoke, house cooking smoke, pollen, mold, spores and bacteria.

**NANO PHOTOCATALYTIC FILTER**

Oxidize and degrade organic contaminants. It can effectively eliminate 99.9% of bacteria and collect dust effectively.

**ELECTROSTATIC FILTER - ANTIBACTERIA**

Remove in high efficient small particals from the air and purify the air from bacteria.

**AUTO CLEAN/DRY**

Avoid bacteria and mildew growing by keeping the heat exchanger dry after cooling operation.

**REMOVABLE WASHABLE PANEL**

Removable panel for efficience and easy cleaning.

**ANTI DUST AND UV CASING**

Minimize dust accumulation on the unit casing.

**FRESH AIR**

Refresh the room by supplying fresh air from outside.

## COMFORT FUNCTIONS

**I FEEL**

Precise tempereture control around dedicated area by using remote control temperature sensor.

**WIDE ANGLE LOUVER**

Better cooling and heating affect by extending the air distribution in the room in a wide angle.

**MOTORIZED 2D AIRFLOW**

Improve cooling and heating affect by swing the air up and down automatically.

**MOTORIZED 4D AIRFLOW**

Excellent cooling and heating affect by swing the air up and down, left and right automatically.

**MULTIFLOW 360°**

Most comfort air distribution system by supply air in four direction in 360° and motorized louver control.

**SLEEP MODE**

Adjusting the room temperature along the night follow human sleep behaviour.

**SUPER QUIET**

Advanced design for low sound level.

**HOT KEEP**

Control the fan operation to avoid drafting of cold air during start operating in heating.



ELEC_EXP_GB.indd 10 24/01/12 18:36

## FUNCTION

**DIGITAL DISPLAY**

Digital display on the indoor unit, indicating the temperature set up or failure code.

**TURBO MODE**

Boosting the output capacity and creat a rapid reaction to reach the room temperature set up.

**PROGRAMMABLE TIMER**

Option to set up a program to control the unit stop and operation based on a real time.

**TIMER**

Option to set up the stop and operation.

**SELF DIAGNOSTIC-LED**

Indicate the unit failure by control the light blinking on the unit display.

**SELF DIAGNOSTIC-DIGITAL**

Indicate the digital failure code on the unit display for easy detecting and solve problems.

**LOW BATTERY INDICATION**

Indication to replace the remote control battery.

**AUTO RESTART**

Automatic restart the unit in the last operation mode once resume power supply.

**REMOTE CONTROL LOCK**

Lock the remote control function to avoid non required operation.

**COMPACT DESIGN**

Slim and small size to reduce the unit space required and provide esthetic image.

**ADVANCED DEFROST**

Minimize the operation without supplying energy during defrost in heating.

**AUTO MODE OPERATION**

Automatically switch the operation between cooling to heating to maintain the room set temperature.

**8°C CONSTANT TEMPERATURE HEATING**

Keep 8°C room temperature to protect automatically the house sanitary system from freezing and damage in very cold weather.

**AUXILIARY HEATER**

Boosting the heating capacity once system working in extremely low ambient temperature.

**MULTI FAN SPEED SUPER QUIET**

Wide range of motor speed to optimize the sound level or the capacity output.

**INTEGRATED WATER PUMP**

Remove the condensate water up for easy and flexible installation.

## CONTROL OPTION CONNECTIVITY

**WIRED CONTROL OPTION**

Option to connect a wired remote control.

**ALARM OUTPUT**

Option to transmit to remote location a severe failure or alarm indication.

**UNIT ON OUTPUT**

Option to transmit indication to remote location if unit is in ON or in OFF operation.

**PRESENCE DETECTOR OUTPUT**

Option to connect to external presence detector to control the unit operation and save energy once room is not equipped.

**GROUP CONTROL**

Option to control a several units with one main controller.

**SERVICE MONITOR TOOL**

PC interface to monitor and adjust the system parameters.

## OUTDOOR UNIT OPTION

**POWER CONSUMPTION CONTROL**

Option to control the power consumption by limiting the maximum unit capacity output.

**REMOTE CONTROL DIAGNOSTIC**

Run diagnostic mode by using indoor unit remote control.

**OUTDOOR UNIT DIGITAL DIAGNOSTIC**

Displaying a digital failure code for easy servicing.

**OUTDOOR UNIT NIGHT MODE DRY CONTACT**

Limiting the outdoor fan motor speed and reducing the outdoor unit noise level.

**OUTDOOR UNIT STAND-BY SWITCH DRY CONTACT**

Option to control the unit ON and OFF from remote device.

**OUTDOOR UNIT ALARM OUTPUT**

Option to transmit alarm of severe failure output to remote device.

**FULL LENGHT REFRIG PRECHARGE**

No additional charge is needed, easy installation and cost saving.

**TECHNICIAN TEST MODE**

Special mode for technician to improve the service duration and professional level.

**-10°C MINIMUM COOLING**

Operation in cooling even in low outside temperature due to advanced control logic.

**-15°C MINIMUM HEATING**

Operating in heating in extremely low outside temperature by using a special unit design.

**ADVANCED INSTALLATION TEST**

Automatic installation test mode for easy installation and mistake corrections.



ELEC_EXP_GB.indd 11 24/01/12 18:36

# ELECTRA RANGE
## Multi DCI Combination Table

| | MODEL NAME | PHOTO | PAGE |
|---|---|---|---|
| **RESIDENTIAL** LINE | VBZ2-14 | | 14 |
| | VBZ3-18 | | 14 |
| | VBZ4-30 | | 14 |

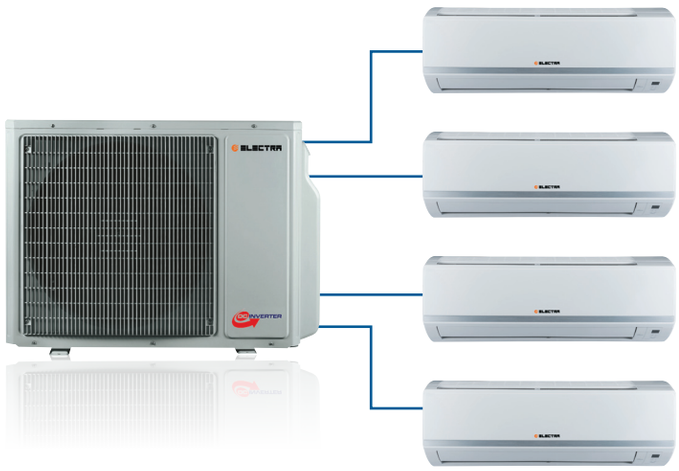


ELEC_EXP_GB.indd 12 24/01/12 18:36

| FULL CAPACITY | | | RESIDENTIAL INDOOR UNIT |
|---|---|---|---|
| | | | Hi Wall JYD |
| | | | |
| KW | BTU/H | MAX. NUM. OF INDOORS | |
| 3,9 | 14,000 | 2 | ✓ |
| 6,8 | 18,000 | 3 | ✓ |
| 7,8 | 30,000 | 4 | ✓ |



ELEC_EXP_GB.indd 13 24/01/12 18:36



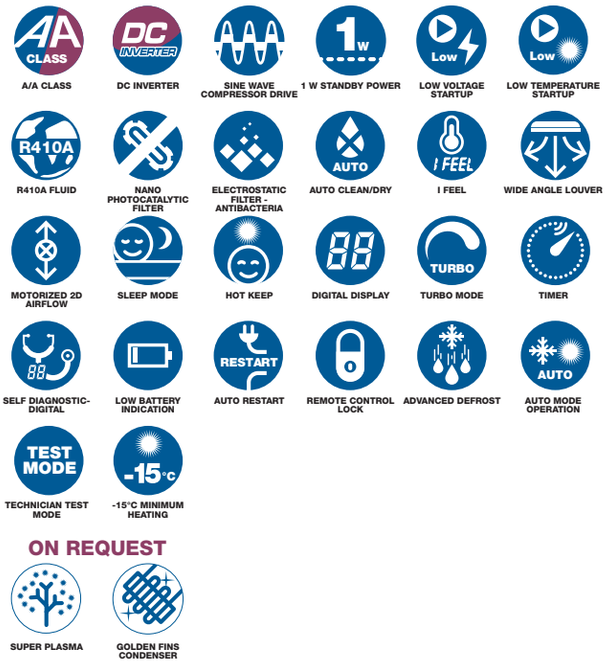
# VBZ

## HIGH WALL
## RESIDENTIAL MULTI DUO/TRIO/QUATTRO

- Capacity range available in 3 capacities from 3.9 up to 7.8 kW.
- DC Inverter and sine wave compressor drive technology.
- Apply with high wall line.

## PRODUCT ADVANTAGES

- A/A class. Minimum energy consumption.
- Rapid operation in cooling and heating mode.
- Advance logic for precise temperature control.




**ON REQUEST**






ELEC_EXP_GB.indd 14 24/01/12 18:36

# VBZ TECHNICAL DATA

| | Outdoor Units | | VBZ2-014 | VBZ3-018 | VBZ4-30 |
|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **3.9 (2.0-4.7)** | **6.8 (2.2-10.00)** | **7.8 (2.2-10.00)** |
| | Power input | kW | 1.14 | 2.11 | 2.42 |
| | EER/Energy Label | | 3.42/A | 3.22/A | 3.22/A |
| | Operating limits | °C | -5°/43° Dry bulb | | |
| HEATING | **Capacity** | **kW** | **4.3 (2.5-5.5)** | **8.0 (2.8-11.0)** | **8.7 (2.8-11.0)** |
| | Input power | kW | 1.13 | 2.21 | 2.4 |
| | COP/Energy Label | | 3.80/A | 3.62/A | 3.63/A |
| | Operating limits | °C | -15°/24° Dry bulb | | |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 56 | 58 | 59 |
| | Sound power level | dB(A) | 66 | 68 | 69 |
| | Airflow | $m^3/h$ | 2600 | 3300 | 3300 |
| | Compressor type | | Rotary DC Inverter | Rotary DC Inverter | Rotary DC Inverter |
| | Dimensions (WxDxH) | mm | 899x378x596 | 955x396x700 | 955x396x700 |
| | Weight | kg | 43 | 59 | 60 |
| | **Part number** | | **ESP091136** | **ESP091137** | **ESP091138** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | Outdoor | Outdoor | Outdoor |
| | Power cable section | $mm^2$ | 3x2.5 | 3x4.0 | 3x4.0 |
| | Fuse rating am | A | 25A | 32A | 32A |
| | Electrical connections | $mm^2$ | 2x (4x1.0) | 3x (4x1.0) | 4x (4x1.0) |
| PIPE LINE | Suction pipe diameter | inches | 2x3/8” | 3x3/8” | 4x3/8” |
| | Liquid pipe diameter | inches | 2x1/4” | 3x1/4” | 4x1/4” |
| | Max lenght | m | 20 | 70 | 70 |
| | Max lenght per circuit | m | 10 | 20 | 20 |
| | Max height between indoor and oudoor units | m | 5 | 10 | 10 |
| | Max height between indoor units | m | 5 | 10 | 10 |
| | **Indoor unit** | | **JYD-009** | **JYD-012** | **JYD-018** |
| COOLING | **Capacity** | **kW** | **2.6** | **3.5** | **5.3** |
| HEATING | **Capacity** | **kW** | **2.8** | **3.8** | **5.8** |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS/SS) | dB(A) | 24/30/38/41 | 25/31/39/42 | 32/37/40/45 |
| | Sound power level (LS/MS/HS/SS) | dB(A) | 34/40/48/51 | 35/41/49/52 | 42/47/50/55 |
| | Airflow (LS/MS/HS/SS) | $m^3/h$ | 280/350/500/600 | 300/410/560/680 | 460/560/680/800 |
| | Dehumidification | l/h | 0.8 | 1.5 | 3 |
| | Dimensions (WxDxH) | mm | 770x201x283 | 770x201x283 | 865x215x305 |
| | Weight | kg | 8 | 9 | 12 |
| | **Part number** | | **ESP022460** | **ESP022461** | **ESP022462** |
| PIPE LINE | Suction pipe diameter | inches | 3/8” | 3/8” | 1/2” |
| | Liquid pipe diameter | inches | 1/4” | 1/4” | 1/4” |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 15 24/01/12 18:36

# CAPACITY COMBINATION

## VBZ2-14

| Indoor units combinations | COOLING | | | | | | | | | | | HEATING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Capacity (kW) | | | | | | | Power input (kW) | | | EER/ Energy label | Capacity (kW) | | | | | | | Power input (kW) | | | COP/ Energy label |
| | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | |
| 9 | 2600 | | | | 2600 | 2000 | 4300 | 700 | 500 | 2000 | 3.71/A | 2800 | | | | 2800 | 1950 | 4700 | 830 | 580 | 2150 | 3.37/C |
| 12 | 3500 | | | | 3500 | 2000 | 4400 | 900 | 500 | 2000 | 3.89/A | 3800 | | | | 3800 | 2000 | 4800 | 1050 | 580 | 2150 | 3.62/A |
| 9+9 | 1950 | 1950 | | | 3900 | 2000 | 4700 | 1140 | 500 | 2000 | 3.42/A | 2150 | 2150 | | | 4300 | 2500 | 5500 | 1130 | 580 | 2150 | 3.81/A |
| 9+12 | 1670 | 2230 | | | 3900 | 2000 | 4700 | 1140 | 500 | 2000 | 3.42/A | 1840 | 2460 | | | 4300 | 2500 | 5500 | 1130 | 580 | 2150 | 3.81/A |

Based on wall mounted combination

## VBZ3-18

| Indoor units combinations | COOLING | | | | | | | | | | | HEATING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Capacity (kW) | | | | | | | Power input (kW) | | | EER/ Energy label | Capacity (kW) | | | | | | | Power input (kW) | | | COP/ Energy label |
| | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | |
| 9 | 2600 | | | | 2600 | 2200 | 4300 | 750 | 650 | 2500 | 3.47/A | 2800 | | | | 2800 | 1950 | 4700 | 1050 | 980 | 2450 | 2.67/E |
| 12 | 3500 | | | | 3500 | 2200 | 4400 | 950 | 650 | 2500 | 3.68/A | 3800 | | | | 3800 | 2000 | 4800 | 1350 | 980 | 2500 | 2.81/D |
| 18 | 5300 | | | | 5300 | 2200 | 6700 | 1400 | 650 | 2600 | 3.79/A | 5800 | | | | 5800 | 2550 | 8200 | 1950 | 980 | 2950 | 2.97/D |
| 9+9 | 2500 | 2500 | | | 5000 | 2200 | 6700 | 1400 | 650 | 2600 | 3.57/A | 3100 | 3100 | | | 6200 | 2550 | 8200 | 2050 | 980 | 2950 | 3.02/D |
| 9+12 | 2570 | 3430 | | | 6000 | 2200 | 7800 | 1800 | 650 | 3300 | 3.33/A | 3090 | 4110 | | | 7200 | 2550 | 8500 | 2100 | 980 | 3300 | 3.43/B |
| 12+12 | 3400 | 3400 | | | 6800 | 2200 | 8200 | 2110 | 650 | 3800 | 3.22/A | 3900 | 3900 | | | 7800 | 2800 | 9300 | 2150 | 980 | 3500 | 3.63/A |
| 9+18 | 2270 | 4530 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 5330 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+18 | 2720 | 4080 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 3200 | 4800 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 18+18 | 3400 | 3400 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 4000 | 4000 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+9 | 2270 | 2270 | 2270 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 2670 | 2670 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+12 | 2040 | 2040 | 2720 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2400 | 2400 | 3200 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+12+12 | 1850 | 2470 | 2470 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2180 | 2910 | 2910 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+12+12 | 2270 | 2270 | 2270 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2000 | 2000 | 4000 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+18 | 1700 | 1700 | 3400 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 2670 | 2670 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+12+18 | 1570 | 2090 | 3140 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 1850 | 2460 | 3690 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+12+18 | 1940 | 1940 | 2910 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2290 | 2290 | 3430 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+18+18 | 1360 | 2720 | 2720 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 1600 | 3200 | 3200 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+18+18 | 1700 | 2550 | 2550 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2000 | 3000 | 3000 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |

Based on wall mounted combination



ELEC_EXP_GB.indd 16 24/01/12 18:36

# VBZ4-30

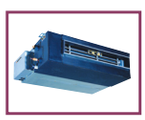
| Indoor units combinations | COOLING | | | | | | | | | | | HEATING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Capacity (kW) | | | | | | | Power input (kW) | | | EER/ Energy label | Capacity (kW) | | | | | | | Power input (kW) | | | COP/ Energy label |
| | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | | A | B | C | D | Totale | Min | Max | Nom. | Min | Max | |
| 9 | 2600 | | | | 2600 | 2200 | 4300 | 750 | 650 | 2500 | 3.47/A | 2800 | | | | 2800 | 1950 | 4700 | 1050 | 980 | 2450 | 2.67/E |
| 12 | 3500 | | | | 3500 | 2200 | 4400 | 950 | 650 | 2500 | 3.68/A | 3800 | | | | 3800 | 2000 | 4800 | 1350 | 980 | 2500 | 2.81/D |
| 18 | 5300 | | | | 5300 | 2200 | 6700 | 1400 | 650 | 2600 | 3.79/A | 5800 | | | | 5800 | 2550 | 8200 | 1950 | 980 | 2950 | 2.97/D |
| 9+9 | 2500 | 2500 | | | 5000 | 2200 | 6700 | 1400 | 650 | 2600 | 3.57/A | 3100 | 3100 | | | 6200 | 2550 | 8200 | 2050 | 980 | 2950 | 3.02/D |
| 9+12 | 2570 | 3430 | | | 6000 | 2200 | 7800 | 1800 | 650 | 3300 | 3.33/A | 3090 | 4110 | | | 7200 | 2550 | 8500 | 2100 | 980 | 3300 | 3.43/B |
| 12+12 | 3400 | 3400 | | | 6800 | 2200 | 8200 | 2110 | 650 | 3800 | 3.22/A | 3900 | 3900 | | | 7800 | 2800 | 9300 | 2150 | 980 | 3500 | 3.63/A |
| 9+18 | 2270 | 4530 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 5330 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+18 | 2720 | 4080 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 3200 | 4800 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 18+18 | 3400 | 3400 | | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 4000 | 4000 | | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+9 | 2270 | 2270 | 2270 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 2670 | 2670 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+12 | 2040 | 2040 | 2720 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2400 | 2400 | 3200 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+12+12 | 1850 | 2470 | 2470 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2180 | 2910 | 2910 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+12+12 | 2270 | 2270 | 2270 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2000 | 2000 | 4000 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+18 | 1700 | 1700 | 3400 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2670 | 2670 | 2670 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+12+18 | 1570 | 2090 | 3140 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 1850 | 2460 | 3690 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+12+18 | 1940 | 1940 | 2910 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2290 | 2290 | 3430 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+18+18 | 1360 | 2720 | 2720 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 1600 | 3200 | 3200 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 12+18+18 | 1700 | 2550 | 2550 | | 6800 | 2200 | 10000 | 2110 | 650 | 4500 | 3.22/A | 2000 | 3000 | 3000 | | 8000 | 2800 | 11000 | 2210 | 980 | 3950 | 3.62/A |
| 9+9+9+9 | 1950 | 1950 | 1950 | 1950 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 2180 | 2180 | 2180 | 2180 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+9+9+12 | 1800 | 1800 | 1800 | 2400 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 2010 | 2010 | 2010 | 2680 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+9+12+12 | 1670 | 1670 | 2230 | 2230 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1860 | 1860 | 2490 | 2490 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+12+12+12 | 1560 | 2080 | 2080 | 2080 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1740 | 2320 | 2320 | 2320 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+9+9+18 | 1560 | 1560 | 1560 | 3120 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1740 | 1740 | 1740 | 3480 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+9+12+18 | 1460 | 1460 | 1950 | 2930 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1630 | 1630 | 2180 | 3260 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 12+12+12+12 | 1950 | 1950 | 1950 | 1950 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 2180 | 2180 | 2180 | 2180 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+12+12+18 | 1380 | 1840 | 1840 | 2750 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1540 | 2050 | 2050 | 3070 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+9+18+18 | 1300 | 1300 | 2600 | 2600 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1450 | 1450 | 2900 | 2900 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 12+12+12+18 | 1730 | 1730 | 1730 | 2600 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1930 | 1930 | 1930 | 2900 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 9+12+18+18 | 1230 | 1640 | 2460 | 2460 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1370 | 1830 | 2750 | 2750 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |
| 12+12+18+18 | 1560 | 1560 | 2340 | 2340 | 7800 | 2200 | 10000 | 2420 | 650 | 4500 | 3.22/A | 1740 | 1740 | 2610 | 2610 | 8700 | 2800 | 11000 | 2400 | 980 | 3950 | 3.63/A |

Based on wall mounted combination



ELEC_EXP_GB.indd 17 24/01/12 18:36

# ELECTRA RANGE
## Fixed Speed Range R410A

| MODEL NAME | | | PAGE | 7<br>2 kW | 9<br>2.5 kW | 12<br>3.5 kW |
|---|---|---|---|---|---|---|
| HIGH WALL MONO | JED | | 20 | | ✓ | ✓ |
| HI WALL | JGF | | 22 | ✓ | ✓ | ✓ |
| FLOOR CEILING | TAF | | 24 | | | ✓ |
| FLOOR STANDING | RSF | | 26 | | | |
| CASSETTE 900X900 | KAF | | 30 | | | |
| DUCTED | OAF |  | 32 | | ✓ | ✓ |
| DUCTED | OAF | | 34 | | | |



ELEC_EXP_GB.indd 18 24/01/12 18:36

| 18<br>**5 kW** | 24<br>**6.8 kW** | 26<br>**7.2 kW** | 30<br>**7.8 kW** | 36<br>**10 kW** | 45<br>**12.5 kW** | 60<br>**14 KW** |
|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | |
| ✓ | ✓ | ✓ | | | | |
| ✓ | ✓ | | ✓ | ✓ | ✓ | |
| | | | | | ✓ | |
| | ✓ | | ✓ | ✓ | ✓ | |
| ✓ | | | | | | |
| | ✓ | | ✓ | ✓ | ✓ | ✓ |



ELEC_EXP_GB.indd 19 24/01/12 18:36

RC08A

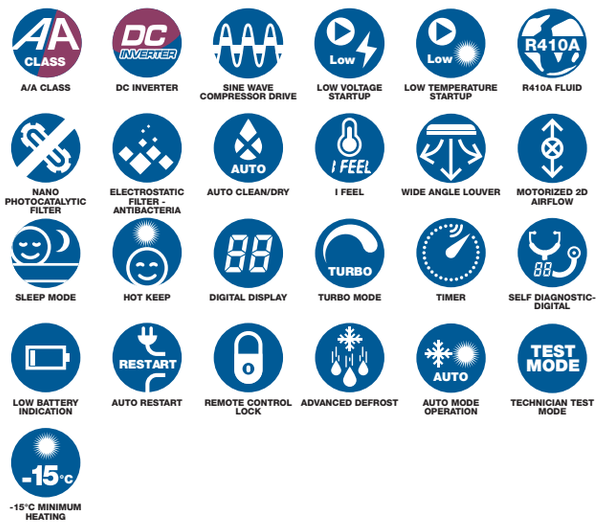
# JED

## HIGH WALL MONO

- High wall line available in capacities 2.65 up to 6.45 kW.
- DC Inverter and sine wave compressor drive technology.
- Photo catalytic antibacterial prefilter.
- -15°C operating in heating mode.
- Cooling & heating operation mode.
- “I feel” function with precise room temperature control.

## PRODUCT ADVANTAGES

- A/A class. Minumum energy consumption.
- Automatic self clean and internal system drying.
- Self diagnostic by digital failure code indication.




**ON REQUEST**

ELEC_EXP_GB.indd 20 24/01/12 18:36

# JED TECHNICAL DATA

| | Indoor Units | | JED 9 DCI | JED 12 DCI | JED 18 DCI | JED 24 DCI |
|---|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **2.65 (0.45-3.23)** | **3.53 (0.6-3.96)** | **5.3 (1.05-6.5)** | **6.45 (1.4-7.0)** |
| | Input power | kW | 0.8 | 1.1 | 1.6 | 2 |
| | EER/Energy Label | | 3.3/A | 3.21/A | 3.31/A | 3.22/A |
| | Operating limits | °C | 10°/48° Dry bulb | | 5°/46° Dry bulb | |
| HEATING | **Capacity** | **kW** | **3.52 (0.45-4.1)** | **4.1 (0.6-5.13)** | **5.8 (1.0-7.1)** | **6.7 (1.2-8.0)** |
| | Power input | kW | 0.95 | 1.14 | 1.6 | 1.85 |
| | COP/Energy Label | | 3.7/A | 3.61/A | 3.62/A | 3.62/A |
| | Operating limits | °C | -15°/24° Dry bulb | | -15°/30° Dry bulb | |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS/SS) | dB(A) | 24/30/36/41 | 25/31/37/42 | 29/37/40/45 | 34/39/44/48 |
| | Sound power level (LS/MS/HS/SS) | dB(A) | 34/40/46/51 | 35/41/47/52 | 39/47/50/55 | 44/49/54/58 |
| | Airflow (LS/MS/HS/SS) | $m^3/h$ | 280/370/520/630 | 300/410/560/680 | 460/560/680/800 | 550/700/800/1000 |
| | Dehumidification | l/h | 0.8 | 1.5 | 3 | 4 |
| | Dimensions (WxDxH) | mm | 770x201x283 | 770x201x283 | 865x215x305 | 1008x221x319 |
| | Weight | kg | 8 | 9 | 12 | 15 |
| | **Part number** | | **ESP022456** | **ESP022457** | **ESP022458** | **ESP022459** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 47 | 48 | 54 | 56 |
| | Sound power level | dB(A) | 57 | 58 | 64 | 66 |
| | Airflow | $m^3/h$ | 1600 | 1600 | 2700 | 2900 |
| | Compressor type | | Rotary DC Inverter | Rotary DC Inverter | Twin Rotary DC Inverter | Twin Rotary DC Inverter |
| | Dimensions (WxDxH) | mm | 658x275x550 | 658x275x550 | 955x396x700 | 955x396x700 |
| | Weight | kg | 28 | 30 | 52 | 55 |
| | **Part number** | | **ESP061721** | **ESP061722** | **ESP061723** | **ESP061724** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | Indoor | Indoor | Indoor | Indoor |
| | Power cable section | $mm^2$ | 3x1.5 | 3x1.5 | 3x2.5 | 3x2.5 |
| | Fuse rating am | A | 16A | 16A | 25A | 25A |
| | Electrical connections | $mm^2$ | 4x1.5 | 4x1.5 | 4x2.5 | 4x2.5 |
| PIPE LINE | Suction pipe diameter | inches | 3/8” | 3/8” | 1/2” | 1/2” |
| | Liquid pipe diameter | inches | 1/4” | 1/4” | 1/4” | 1/4” |
| | Max lenght | m | 15 | 15 | 25 | 25 |
| | Max height | m | 5 | 5 | 10 | 10 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 21 24/01/12 18:36

RC08A

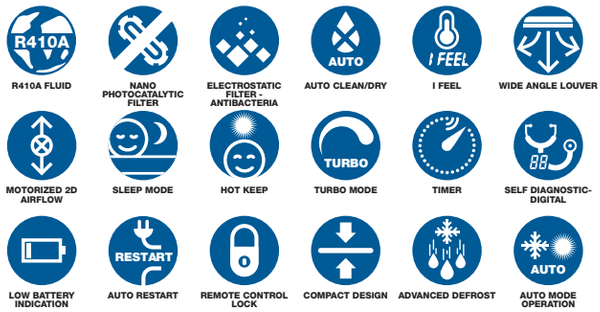
# JGF

## HI WALL

- High wall line available in capacities from 2.2 up to 7.05 kW.
- Digital display.
- Cooling & heating operation mode.
- Photocatalytic antibacterial prefilter.
- “I feel” function with precise room temperature control.

## PRODUCT ADVANTAGES

- Wide angle air distribution for excellent comfort.
- Self diagnostic by digital failure code indication.
- A/A class. Minimum energy consumption in size 9, 12 and 18.




**ON REQUEST**

ELEC_EXP_GB.indd 22 24/01/12 18:36

# JGF TECHNICAL DATA

| | Indoor Units | | JGF 7 RC | JGF 9 RC | JGF 12 RC | JGF 18 RC | JGF 24 RC |
|---|---|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **2.2** | **2.64** | **3.22** | **5.3** | **6.15** |
| | Input power | kW | 0.685 | 0.82 | 1 | 1.58 | 1.9 |
| | EER/Energy Label | | 3.21/A | 3.21/A | 3.21/A | 3.35/A | 3.24/A |
| | Outdoor temperature operating limits | °C | 18/43°C Dry Bulb | | | | |
| HEATING | **Capacity** | **kW** | **2.38** | **2.81** | **3.52** | **5.85** | **6.50** |
| | Input power | kW | 0.66 | 0.78 | 0.97 | 1.62 | 1.9 |
| | COP/Energy Label | | 3.61/A | 3.61/A | 3.61/A | 3.61/A | 3.42/B |
| | Outdoor temperature operating limits | °C | - 7/24°C Dry Bulb | | | | |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS/SS) | dB(A) | 32/35/37/40 | 32/35/37/40 | 32/35/38/41 | 35/39/42/45 | 38/41/44/47 |
| | Sound power level(LS/MS/HS/SS) | dB(A) | 42/45/47/50 | 42/45/47/50 | 42/45/48/51 | 45/49/52/55 | 48/51/54/57 |
| | Dehumidification | l/h | 0.8 | 0.8 | 1.2 | 1.8 | 3 |
| | Airflow (LS/MS/HS/SS) | $m^3/h$ | 310/340/370/400 | 310/340/370/400 | 350/420/500/550 | 550/650/780/850 | 550/650/780/850 |
| | Dimensions (WxDxH) | mm | 730x174x255 | 730x174x255 | 790x177x265 | 940x200x298 | 940x200x298 |
| | Weight | kg | 8 | 8 | 9 | 13 | 13 |
| | **Part number** | | **ESP022469** | **ESP022451** | **ESP022452** | **ESP022453** | **ESP022454** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 50 | 50 | 52 | 56 | 56 |
| | Sound power level | dB(A) | 60 | 60 | 62 | 66 | 66 |
| | Airflow | $m^3/h$ | 1500 | 1500 | 1800 | 2790 | 2790 |
| | Compressor type | | Rotary | Rotary | Rotary | Rotary | Rotary |
| | Dimensions (WxDxH) | mm | 730x310x428 | 785x320x540 | 798x320x540 | 913x378x680 | 913x378x680 |
| | Weight | kg | 23.5 | 31 | 31 | 46 | 46 |
| | **Part number** | | **ESP061751** | **ESP061716** | **ESP061717** | **ESP061718** | **ESP061719** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | indoor | Indoor | Indoor | Indoor | Indoor |
| | Power cable section | $mm^2$ | 3x1.0 | 3x1.0 | 3x1.0 | 3x2.5 | 3x2.5 |
| | Fuse rating am | A | 10 | 10 | 16 | 25 | 25 |
| | Electrical connections | $mm^2$ | 3x1.0+2x0.75 | 3x1.0+2x0.75 | 3x1.0+2x0.75 | 5x2.5 | 5x2.5 |
| PIPE LINE | Suction pipe diameter | inches | 3/8” | 3/8” | 1/2” | 1/2” | 1/2” |
| | Liquid pipe diameter | inches | 1/4” | 1/4” | 1/4” | 1/4” | 1/4” |
| | Max lenght | m | 10 | 20 | 20 | 25 | 25 |
| | Max height | m | 5 | 10 | 10 | 10 | 10 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 23 24/01/12 18:36

RC08A

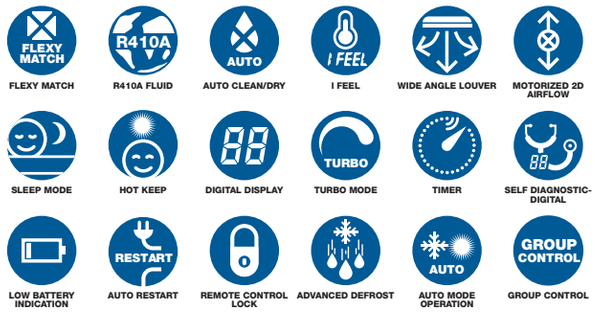
RCW3

RCW4
(optional)

# TAF

## FLOOR CEILING

- Floor and ceiling line available in capacities from 3.5 to 12 kW.
- Cooling & heating operation mode.
- "I feel" function with precise room temperature control.
- Available in 3PH from 10 kW.




## PRODUCT ADVANTAGES

- Wired and wireless remote controls provided as standard.
- Self diagnostic (error indications) in remote the wired remote control for ease of maintenance.
- Centralized controller up to 16 units including weekly timer (optional).

## ACCESSORIES/OPTIONS

| Acc. | Reference | Photo | Description | Additional accessory required | Function |
|---|---|---|---|---|---|
| **RCW-4** | 7ACEL1613 | | Wired group control | | - Control up to 16 indoor unit as a group or individualy.<br>- Option to set in each indoor unit ON/OFF, set temperature, timer (daily and weekly), mode, fan speed and swing.<br>- Indicating failure code. |



ELEC_EXP_GB.indd 24 24/01/12 18:37

# TAF TECHNICAL DATA

| | Indoor Units | | TAF 24 RC | TAF 30 RC | TAF 36 RC | TAF 42 RC |
|---|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **7.00** | **8.80** | **10.00** | **12.00** |
| | Input power | kW | 2.61 | 3.00 | 3.60 | 4.80 |
| | EER/Energy Label | | 2.68/D | 2.93/C | 2.77/D | 2.5/E |
| | Outdoor temperature operating limits | °C | 18°/43° Dry bulb | | | |
| HEATING | **Capacity** | **kW** | **8.00** | **9.80** | **11.00** | **14.00** |
| | Input power | kW | 2.59 | 2.85 | 3.3 | 4.7 |
| | COP/Energy Label | | 3.08/D | 3.43/B | 3.33/C | 2.97/D |
| | Outdoor temperature operating limits | °C | -7°/24° Dry bulb | | | |
| INDOOR | Sound pressure level to 1 m (LS/MS/HS) | dB(A) | 46/48/50 | 49/51/52 | 48/51/54 | 48/51/54 |
| | Sound power level (LS/MS/HS) | $m^3/h$ | 56/58/60 | 59/61/62 | 58/61/64 | 58/61/64 |
| | Airflow (LS/MS/HS) | $m^3/h$ | 1000/1080/1170 | 1300/1450/1600 | 1520/1630/1800 | 1520/1630/1800 |
| | Dehumidification | l/h | 2.4 | 2.3 | 2.9 | 4.3 |
| | Dimensions (WxDxH) | mm | 1300x600x188 | 1420x700x245 | 1590x695x238 | 1590x695x238 |
| | Weight | kg | 32 | 50 | 42 | 42 |
| | **Part number** | | **ESP012174** | **ESP012175** | **ESP012176** | **ESP012177** |
| OUTDOOR | Sound pressure level to 1 m | dB(A) | 59 | 59 | 60 | 60 |
| | Sound power level | dB(A) | 69 | 69 | 70 | 70 |
| | Airflow | $m^3/h$ | 3200 | 4200 | 4000 | 6000 |
| | Compressor type | | Rotary | Rotary | Scroll | Scroll |
| | Dimensions (WxDxH) | mm | 1018x412x700 | 980x427x790 | 1018x412x840 | 950x412x1250 |
| | Weight | kg | 59 | 70 | 90 | 112 |
| 1~230V - 50 Hz | **Part number** | | **ESP061739** | **ESP061740** | **ESP061741** | |
| 3~400V - 50 Hz | **Part number** | | | | | **ESP061743** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | Ind. & Out. | Ind. & Out. | Ind. & Out. | |
| | Power cable section | $mm^2$ | 3x1.0 - 3x4.0 | 3x1.0 - 3x6.0 | 3x1.0 - 3x6.0 | |
| | Fuse rating am | A | 6 - 25 | 6 - 32 | 6 - 40 | |
| | Electrical connections | $mm^2$ | 2x0.75 | 2x0.75 | 2x0.75 | |
| POWER SUPPLY 3~400V - 50 Hz | Power supply side | | | | | Ind. & Out. |
| | Power cable section | $mm^2$ | | | | 3x1.0 - 5x2.5 |
| | Fuse rating am | A | | | | 6 - 20 |
| | Electrical connections | $mm^2$ | | | | 2x0.75 |
| PIPE LINE | Suction pipe diameter | inches | 5/8" | 5/8" | 3/4" | 3/4" |
| | Liquid pipe diameter | inches | 3/8" | 3/8" | 1/2" | 1/2" |
| | Max lenght | m | 30 | 30 | 50 | 50 |
| | Max height | m | 15 | 15 | 30 | 30 |

## ELECTRA SOLUTIONS

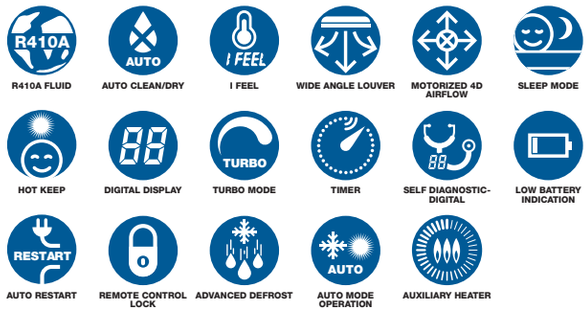
ELEC_EXP_GB.indd 25 24/01/12 18:37

RC08A

# RSF

## FLOOR STANDING

- Floor standing available in 12.4 kW capacity.
- Cooling & Heating mode.
- “I feel” function with precise room temperature control.




## PRODUCT ADVANTAGES

- Motorized air control in 4 dimensional, right to left and up to down.
- Self diagnostic by digital failure code indication.
- Auxiliary electrical heater 2,5 kW.



ELEC_EXP_GB.indd 26 24/01/12 18:37

# RSF TECHNICAL DATA

| | Indoor units | | RSF 45 RC |
|---|---|---|---|
| COOLING | **Capacity** | **kW** | **12.4** |
| | Input power | kW | 4.94 |
| | EER/Energy Label | | 2.51/E |
| | Outdoor temperature operating limits | °C | 18/43°C Dry Bulb |
| HEATING | **Capacity** | **kW** | **13.6 (+2.5)** |
| | Input power | kW | 4.84 (+2.5) |
| | COP/Energy Label | | 2.81/D |
| | Outdoor temperature operating limits | °C | -7/24°C Dry Bulb |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS/SS) | dB(A) | 46/48/50/52 |
| | Sound power level (LS/MS/HS/SS) | dB(A) | 56/58/60/62 |
| | Airflow (LS/MS/HS/SS) | $m^3/h$ | 1350/1500/1650/1800 |
| | Dehumidification | l/h | 6 |
| | Dimensions (WxDxH) | mm | 518x395x1870 |
| | Weight | kg | 63 |
| | **Part number** | | **ESP011007** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 59 |
| | Sound power level | dB(A) | 69 |
| | Airflow | $m^3/h$ | 4000 |
| | Compressor type | | Scroll |
| | Dimensions (WxDxH) | mm | 1032x412x1250 |
| | Weight | kg | 110 |
| | **Part number** | | **ESP061752** |
| POWER SUPPLY 1~230V - 50 H | Power supply side | | Outdoor |
| | Power cable section | $mm^2$ | 5x2.5 |
| | Fuse rating am | A | 25 |
| | Electrical connections | $mm^2$ | 5x1.0 + 5x1.0 + 4x1.0 |
| PIPE LINE | Suction pipe diameter | inches | 3/4" |
| | Liquid pipe diameter | inches | 1/2" |
| | Max lenght | m | 25 |
| | Max height | m | 40 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 27 24/01/12 18:37

RC08A RCW3 RCW4 (optional)

# KAF

## CASSETTE 900x900

- Cassette line available in capacities from 6.8 to 12 kW.
- Cooling & heating operation mode.
- “I feel” function with precise room temperature control.
- Available in 3PH from 10 kW.

## PRODUCT ADVANTAGES

- Wired and wireless remote controls provided as standard.
- Self diagnostic (error indications) for ease of maintenance.
- 230 mm height only.
- Centralized controller up to 16 units including weekly timer (optional).
- Fresh air supplied.

## ACCESSORIES/OPTIONS

| Acc. | Reference | Photo | Description | Additional accessory required | Function |
|---|---|---|---|---|---|
| **RCW-4** | 7ACEL1613 | | Wired group control | | - Control up to 16 indoor unit as a group or individualy.<br>- Option to set in each indoor unit ON/OFF, set temperature, timer (daily and weekly), mode, fan speed and swing.<br>- Indicating failure code. |



ELEC_EXP_GB.indd 28 24/01/12 18:37

# KAF TECHNICAL DATA

| | Indoor Units | | KAF 24 RC | KAF 30 RC | KAF 36 RC | KAF 42 RC |
|---|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **6.80** | **8.30** | **10.00** | **12.00** |
| | Input power | kW | 2.62 | 2.90 | 3.60 | 4.80 |
| | EER/Energy Label | | 2.59/E | 2.86/C | 2.77/D | 2.50/E |
| | Outdoor temperature operating limits | °C | 18°/43° Dry bulb | | | |
| HEATING | **Capacity** | **kW** | **7.50** | **8.80** | **11.00** | **14.00** |
| | Input power | kW | 2.50 | 3.15 | 3.30 | 5.00 |
| | COP/Energy Label | | 3.00/D | 2.79/E | 3.33/C | 2.80/D |
| | Outdoor temperature operating limits | °C | -7°/24° Dry bulb | | | |
| INDOOR UNIT | Sound pressure level to 1 m | dB(A) | 43/45/47 | 48/49/51 | 48/51/53 | 48/51/53 |
| | Sound power level | dB(A) | 53/55/57 | 58/59/61 | 58/61/63 | 58/61/63 |
| | Airflow | $m^3/h$ | 1000/1080/1180 | 1170/1270/1400 | 1500/1570/1660 | 1500/1570/1650 |
| | Dehumidification | l/h | 2.35 | 2.7 | 2.9 | 4.3 |
| | Dimensions (WxDxH) | mm | 840x840x260 | 840x840x260 | 840x840x320 | 840x840x320 |
| | Weight | kg | 30 | 27 | 38 | 38 |
| | Frame Dimensions 950x950 | mm | 950x950x60 | 950x950x60 | 950x950x60 | 950x950x60 |
| | Weight | kg | 6.5 | 6.5 | 6.5 | 6.5 |
| | **Part number** | | **ESP042155** | **ESP042156** | **ESP042157** | **ESP042158** |
| | **Part number Frame 950x950** | | **EACVF0006** | **EACVF0006** | **EACVF0006** | **EACVF0006** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 59 | 59 | 60 | 60 |
| | Sound power level | dB(A) | 69 | 69 | 70 | 70 |
| | Airflow | $m^3/h$ | 3200 | 4200 | 4000 | 6000 |
| | Compressor type | | Rotary | Rotary | Rotary | Scroll |
| | Dimensions (WxDxH) | mm | 1018x412x700 | 980x427x790 | 1018x412x840 | 950x412x1250 |
| | Weight | kg | 59 | 70 | 90 | 112 |
| 1~230V - 50 Hz | **Part number** | | **ESP061739** | **ESP061740** | **ESP061741** | |
| 3~400V - 50 Hz | **Part number** | | | | | **ESP061743** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | Indoor & Outdoor | Indoor & Outdoor | Indoor & Outdoor | |
| | Power cable section | $mm^2$ | 3x1.0 - 3x4.0 | 3x1.0 - 3x6.0 | 3x1.0 - 3x6.0 | |
| | Fuse rating am | A | 6 - 25 | 6 - 32 | 6 - 40 | |
| | Electrical connections | $mm^2$ | 2x0.75 | 2x0.75 | 2x0.75 | |
| POWER SUPPLY 3~400V - 50 Hz | Power supply side | | | | | Indoor & Outdoor |
| | Power cable section | $mm^2$ | | | | 3x1.0 - 5x2.5 |
| | Fuse rating am | A | | | | 6 - 20 |
| | Electrical connections | $mm^2$ | | | | 2x0.75 |
| PIPE LINE | Suction pipe diameter | inches | 5/8" | 5/8" | 3/4" | 3/4" |
| | Liquid pipe diameter | inches | 3/8" | 3/8" | 1/2" | 1/2" |
| | Max lenght | m | 30 | 30 | 50 | 50 |
| | Max height | m | 15 | 15 | 30 | 30 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 29 24/01/12 18:37

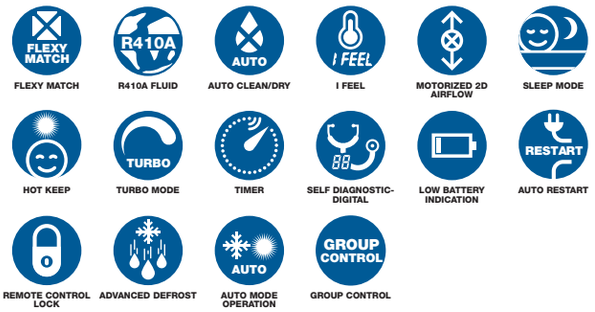
RC08A

RCW3

RCW4
(optional)

# OAF
## DUCTED

- Ducted line available in capacities from 2.6 up to 5 kW.
- Cooling & heating operation mode.
- "I feel" function with precise room temperature control.




## PRODUCT ADVANTAGES

- Wired and wireless remote controls provided as standard.
- Self diagnostic (error indications) in remote the wired remote control for ease of maintenance.
- Space saving due to low unit height.
- Centralized controller up to 16 units including weekly timer (optional).

## ACCESSORIES/OPTIONS

| Acc. | Reference | Photo | Description | Additional accessory required | Function |
|---|---|---|---|---|---|
| **RCW-4** | 7ACEL1613 | | Wired group control | | - Control up to 16 indoor unit as a group or individualy.<br>- Option to set in each indoor unit ON/OFF, set temperature, timer (daily and weekly), mode, fan speed and swing.<br>- Indicating failure code. |



ELEC_EXP_GB.indd 30 24/01/12 18:37

# OAF TECHNICAL DATA

| | Indoor Units | | OAF 09 RC | OAF 12 RC | OAF 18 RC | OAF 24 RC | OAF 30RC | OAF 36 RC |
|---|---|---|---|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **2.60** | **3.50** | **5.00** | **7.00** | **8.30** | **10.00** |
| | Input power | kW | 1.00 | 1.20 | 2.10 | 2.66 | 3.00 | 4.00 |
| | EER/Energy Label | | 2.60/D | 2.91/C | 2.38/F | 2.63/D | 2.76/D | 2.50/E |
| | Outdoor temperature operating limits | °C | 18°/43° Dry bulb | | | | | |
| HEATING | **Capacity** | **kW** | **2.85** | **3.60** | **5.70** | **8.00** | **9.10** | **11.00** |
| | Input power | kW | 0.97 | 1.10 | 1.80 | 2.51 | 3.00 | 3.50 |
| | COP/Energy Label | | 2.93/D | 3.27/C | 3.16/D | 3.18/D | 3.03/D | 3.14/D |
| | Outdoor temperature operating limits | °C | -7°/24° Dry bulb | | | | | |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS) | dB(A) | 34/36/37 | 36/38/40 | 38/40/42 | 40/42/44 | 40/42/44 | 46/48/50 |
| | Sound power level (LS/MS/HS) | dB(A) | 44/46/47 | 46/48/50 | 48/50/52 | 50/52/54 | 50/52/54 | 56/58/60 |
| | Airflow (LS/MS/HS) | $m^3/h$ | 400/470/550 | 490/540/600 | 680/750/840 | 1220/1350/1400 | 1200/1320/1400 | 1380/1650/2000 |
| | External static pressure | Pa | 25 (0-25) | 25 (0-25) | 25 (0-25) | 25 (0-100) | 37 (0-100) | 37 (0-150) |
| | Dehumidification | l/h | 1 | 1.3 | 1.9 | 2.4 | 2.5 | 2.9 |
| | Dimensions (WxDxH) | mm | 913x680x220 | 913x680x220 | 1012x736x266 | 1270x504x268 | 1270x530x268 | 1251x744x290 |
| | Weight | kg | 27 | 27 | 36 | 37 | 37 | 57 |
| | **Part number** | | **ESP032007** | **ESP032008** | **ESP032009** | **ESP032010** | **ESP032011** | **ESP032012** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 55 | 56 | 56 | 59 | 59 | 60 |
| | Sound power level | dB(A) | 65 | 66 | 66 | 69 | 69 | 70 |
| | Airflow | $m^3/h$ | 2800 | 2800 | 2800 | 3200 | 4200 | 4000 |
| | Compressor type | | Rotary | Rotary | Rotary | Rotary | Rotary | Scroll |
| | Dimensions (WxDxH) | mm | 848x320x540 | 848x320x540 | 848x320x540 | 1018x412x700 | 980x427x790 | 1018x412x840 |
| | Weight | kg | 32 | 32 | 40 | 59 | 70 | 90 |
| | **Part number** | | **ESP061736** | **ESP061737** | **ESP061738** | **ESP061739** | **ESP061740** | **ESP061741** |
| POWER SUPPLY 1~230V - 50 Hz | Power supply side | | Ind. & Out. | Ind. & Out. | Ind. & Out. | Ind. & Out. | Ind. & Out. | Ind. & Out. |
| | Power cable section | $mm^2$ | 3x1.0 - 3x1.5 | 3x1.0 - 3x1.5 | 3x1.0 - 3x2.5 | 3x1.0 - 3x4.0 | 3x1.0 - 3x6.0 | 3x1.5 - 3x6.0 |
| | Fuse rating am | A | 6 - 10 | 6 -16 | 6 - 20 | 6 - 25 | 6 - 32 | 10 - 40 |
| | Electrical connections | $mm^2$ | 2x0.75 | 2x0.75 | 2x0.75 | 2x0.75 | 2x0.75 | 2x0.75 |
| PIPE LINE | Suction pipe diameter | inches | 3/8” | 1/2” | 1/2” | 5/8” | 5/8” | 3/4” |
| | Liquid pipe diameter | inches | 1/4” | 1/4” | 1/4” | 3/8” | 3/8” | 1/2” |
| | Max length | m | 20 | 20 | 20 | 30 | 30 | 50 |
| | Max height | m | 15 | 15 | 15 | 15 | 15 | 30 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 31 24/01/12 18:37

RC08A

RCW3

RCW4
(optional)

# OAF

## DUCTED - 3N~400 V - 50 HZ

- Ducted line available in capacities from 7 up to 16 kW.
- Cooling & heating operation mode.
- “I feel” function with precise room temperature control.
- Available in 3PH from 10 kW.

## PRODUCT ADVANTAGES

- Wired and wireless remote controls provided as standard.
- Self diagnostic (error indications) in remote the wired remote control for ease of maintenance.
- Space saving due to low unit height.
- Centralized controller up to 16 units including weekly timer (optional).

## ACCESSORIES/OPTIONS

| Acc. | Reference | Photo | Description | Additional accessory required | Function |
|---|---|---|---|---|---|
| **RCW-4** | 7ACEL1613 | | Wired group control | | - Control up to 16 indoor unit as a group or individualy.<br>- Option to set in each indoor unit ON/OFF, set temperature, timer (daily and weekly), mode, fan speed and swing.<br>- Indicating failure code. |



ELEC_EXP_GB.indd 32 24/01/12 18:37

# OAF TECHNICAL DATA

| | Indoor Units | | OAF 42 RC | OAF 60 RC |
|---|---|---|---|---|
| COOLING | **Capacity** | **kW** | **12.00** | **16.00** |
| | Input power | kW | 5.30 | 6.50 |
| | EER/Energy Label | | 2.26/F | 2.46/E |
| | Outdoor temperature operating limits | °C | 18°/ 43° Dry bulb | |
| HEATING | **Capacity** | **kW** | **14.00** | **18.50** |
| | Input power | kW | 4.90 | 5.50 |
| | COP/Energy Label | | 2.85/D | 3.36/C |
| | Outdoor temperature operating limits | °C | -7°/ 24° Dry bulb | |
| INDOOR UNIT | Sound pressure level to 1 m (LS/MS/HS) | dB(A) | 46/48/50 | 48/50/53 |
| | Sound power level (LS/MS/HS) | dB(A) | 56/58/60 | 58/60/63 |
| | Airflow (LS/MS/HS) | $m^3/h$ | 1380/1650/2000 | 1800/2100/2500 |
| | External static pressure | Pa | 37 (0-150) | 50 (0-150) |
| | Dehumidification | l/h | 4.3 | 4.7 |
| | Dimensions (WxDxH) | mm | 1251x744x290 | 1251x788x330 |
| | Weight | kg | 57 | 66 |
| | **Part number** | | **ESP032013** | **ESP032014** |
| OUTDOOR UNIT | Sound pressure level to 1 m | dB(A) | 60 | 64 |
| | Sound power level | dB(A) | 70 | 74 |
| | Airflow | $m^3/h$ | 6000 | 6000 |
| | Compressor type | | Scroll | Scroll |
| | Dimensions (WxDxH) | mm | 950x412x1250 | 950x412x1250 |
| | Weight | kg | 112 | 123 |
| 3~400V - 50 Hz | **Part number** | | **ESP061743** | **ESP061744** |
| POWER SUPPLY 3~400V - 50 Hz | Power supply side | | Indoor & Outdoor | Indoor & Outdoor |
| | Power cable section | $mm^2$ | 3x1.5 - 5x2.5 | 3x1.5 - 5x2.5 |
| | Fuse rating am | A | 10 - 20 | 10 - 20 |
| | Electrical connections | $mm^2$ | 2x0.75 | 2x0.75 |
| PIPE LINE | Suction pipe diameter | inches | 3/4” | 3/4” |
| | Liquid pipe diameter | inches | 1/2” | 1/2” |
| | Max length | m | 50 | 50 |
| | Max height | m | 30 | 30 |

## ELECTRA SOLUTIONS

ELEC_EXP_GB.indd 33 24/01/12 18:37

# Notes



ELEC_EXP_GB.indd 34 24/01/12 18:37

ELEC_EXP_GB.indd 35 24/01/12 18:37

# Notes



ELEC_EXP_GB.indd 36 24/01/12 18:37

ELEC_EXP_GB.indd 37 24/01/12 18:37

# Notes



ELEC_EXP_GB.indd 38 24/01/12 18:37

ELEC_EXP_GB.indd 39 24/01/12 18:37

ELECTRA

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